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☐	L79	L77 and execution	0
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☐	L77	L75 and (compar$3 same threshold)	1
☐	L76	L75 and (compar$3 near5 threshold)	0
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☐	L61	L52 and (heap same threshold)	0
☐	L60	L52 and heap	1
☐	L59	L52 and (memory near5 heap)	1
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☐	L55	L52 and (application$1 same execut$4 same thread$3)	0
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☐	L50	L48 and (bit near5 vector$1)	0
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☐	L48	L47 and threshold	18
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☐	L21	(bit near5 vector$1) and (mark near5 sweep) and (live near5 object$1) and execut$3 and concurrently and application$1 and @py<=2004	0

☐	L20	L19 and threshold$3	3
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☐	L15	(bit near5 vector$1) and toggl$3 and 'mark-sweep' and (garbage near5 collection$1) and threshold$3 and (heap near5 block$1) and @py<=2004	0
☐	L14	L12 and (heap near5 block)	1
☐	L13	L12 and heap	14
☐	L12	'mark-sweep garbage collection' and @py<=2004	18
☐	L11	L10 and heap	18
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☐	L8	L7 and 'mark-sweep garbage collection'	1
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☐	L6	L5 and (heap near5 block$1)	0
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☐	L4	L3 and concurrent$2	8
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Fu, M.-M.; Dasgupta, P.;
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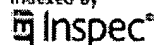
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      Witawas Srisa-An; Srisa-an; Chia-Tien Dan Lo; J Morris Chang;
      Computer Design, 2001. ICCD 2001. Proceedings. 2001 International Confere
      23-26 Sept. 2001 Page(s):493 - 496
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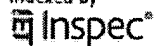
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11 GARBAGE TREATMENT MACHINE
Inventor: FUKUNAGA TAKESHI; MORIIZUMI MASAKI;   Applicant: SANYO ELECTRIC CO
(+4)
EC: IPC: *B09B3/00; F26B9/06; F26B25/12* (+6)

Publication info: **JP2005238237** - 2005-09-08

12 GARBAGE COLLECTION FOR SMART CARDS
Inventor: TREGER JOERN (DE); PINZINGER ROBERT   Applicant: GIESECKE & DEVRIENT GMBH (DE); TREGER
(DE)   JOERN (DE); (+1)
EC: IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F12/02

Publication info: **WO2005093580** - 2005-10-06

**13 ADAPTIVE GARBAGE COLLECTION METHOD AND DEVICE FOR
IMPLEMENTING THIS METHOD**
Inventor: CHUNG SEUNG-BUM; ROMANOVSKI ALEXEI;   Applicant: SAMSUNG ELECTRONICS CO LTD
(+4)
EC: G06F12/02D2G4G   IPC: *G06F9/44; G06F12/00; G06F12/02* (+5)

Publication info: **JP2005216298** - 2005-08-11

14 Accelerated reference finding for an automatic garbage collection
Inventor: KRAMPOSTHUBER GEORG (DE)   Applicant: GIESECKE & DEVRIENT GMBH (DE)
EC: G06F12/02D2G   IPC: *G06F9/44; G06F12/02; G06F12/08* (+4)

Publication info: **EP1530131** - 2005-05-11

15 Method and system for multiprocessor garbage collection
Inventor: DUSSUD PATRICK H (US)   Applicant: MICROSOFT CORP (US)
EC: G06F12/02D2G4   IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F12/00

Publication info: **US2005033781** - 2005-02-10

16 Benchmarking Garbage Collection in Java Virtual Machines
Inventor: LEE WOO-HYONG (KR)   Applicant: SAMSUNG ELECTRONICS CO LTD (KR)
EC: IPC: *G06F9/44; G06F9/45; G06F11/34* (+11)

Publication info: **GB2405506** - 2005-03-02

17 APPARATUS AND METHOD FOR GARBAGE COLLECTION
Inventor: JUNG IM-YOUNG (KR); JUN SUNG-IK (KR);   Applicant: KOREA ELECTRONICS TELECOMM (KR);
(+1)   JUNG IM-YOUNG (KR); (+2)
EC: IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F12/02

Publication info: **WO2005045683** - 2005-05-19

18 ELECTRONIC SYSTEM AND GARBAGE COLLECTION METHOD
Inventor: CHAUVEL GERARD; LASSERRE SERGE; (+8)   Applicant: TEXAS INSTRUMENTS INC
EC: G06F12/02D2G4   IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F12/00

Publication info: **JP2005011349** - 2005-01-13

**19 Efficient write-watch mechanism useful for garbage collection in a
computer system**
Inventor: WANG LANDY (US)   Applicant: MICROSOFT CORP (US)
EC: G06F12/02D2G4; G06F12/10   IPC: *G06F12/02; G06F12/10*; G06F12/02 (+2)

Publication info: **US2004199742** - 2004-10-07

20 System and method for performing garbage collection on a large heap
Inventor: DUSSUD PATRICK H (US)   Applicant: MICROSOFT CORP
EC: IPC: *G06F12/00*; G06F12/00; (IPC1-7): G06F12/00

Publication info: **US2005235120** - 2005-10-20

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21 **A method for inspecting garbage files in cluster file system**
Inventor: SONG DONGMEI (CN); SHI XIAODONG (CN); Applicant: LENOVO BEIJING CO LTD (CN)
(+6)
EC: IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30

Publication info: **CN1670726** - 2005-09-21

22 **DEODORIZING DEVICE OF GARBAGE TREATMENT MACHINE AND
DEODORIZING METHOD USING IT**
Inventor: HAYASHI YUJI; MATSUMOTO TAKESHI; (+3) Applicant: I M PACT WORLD KK; NIIT CO E; (+1)
EC: IPC: *B01D53/38; B01D53/81; B01J19/08* (+17)

Publication info: **JP2005211764** - 2005-08-11

23 **Method for enabling comprehensive profiling of garbage-collected
memory systems**
Inventor: LIANG SHENG (US); GRARUP STEFFEN (US) Applicant: SUN MICROSYSTEMS INC (US)
EC: G06F11/34T; G06F12/02D2G   IPC: *G06F11/34; G06F12/02*; G06F11/34 (+2)

Publication info: **US2004158589** - 2004-08-12

24 **Method and apparatus for scheduling and performing garbage
collection in a real-time system with guaranteed space bounds**
Inventor: BACON DAVID F (US); CHENG PERRY (US); Applicant: IBM
(+1)
EC: IPC: *G06F12/00*; G06F12/00; (IPC1-7): G06F12/00

Publication info: **US2005149585** - 2005-07-07

25 **CONTROL DEVICE FOR GARBAGE TREATMENT MACHINE**
Inventor: SAITOU YOSHITAKA; UWABE SHIGERU   Applicant: HITACHI HOME TEC LTD
EC: IPC: *B09B3/00; F26B9/06*; F26B21/10 (+6)

Publication info: **JP2005177561** - 2005-07-07

26 **GARBAGE TREATMENT APPARATUS**
Inventor: NAKAI SATOSHI; YONEDA ISAO; (+1)   Applicant: SANYO ELECTRIC CO
EC: IPC: *B02C21/00; B02C25/00; B09B3/00* (+18)

Publication info: **JP2005103414** - 2005-04-21

27 **Conditional garbage based on monitoring to improve real time
performance**
Inventor: CHAUVEL GERARD (FR)   Applicant: TEXAS INSTRUMENTS INC (US)
EC: IPC: *G06F12/00*; G06F12/00; (IPC1-7): G06F12/00

Publication info: **US2004024798** - 2004-02-05

28 **Conditional garbage collection based on monitoring to improve real
time performance**
Inventor: CHAUVEL GERARD (FR)   Applicant: TEXAS INSTRUMENTS INC (US); TEXAS
                                           INSTRUMENTS FRANCE (FR)
EC: G06F9/30R2; G06F9/318T; (+1)   IPC: *G06F9/30; G06F9/318; G06F9/32* (+4)

Publication info: **EP1387273** - 2004-02-04

29 **Depth counter used to reduce number of items to consider for loop
detection in a reference-counting garbage collector**
Inventor: LEWIS RUSSELL L (US)   Applicant: IBM (US)
EC: IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30

Publication info: **US2005015417** - 2005-01-20

30 **Garbage collection**

Inventor: HAYWARD ANDREW (GB)

EC: G06F12/02D2G

Publication Info: **US2003187888** - 2003-10-02

Applicant:

IPC: *G06F12/02*; **G06F12/02**; (IPC1-7): G06F17/30

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31   Non-zero null reference to speed up write barrier checking for garbage collection
Inventor: THOMAS STEPHEN (GB)   Applicant:

EC: G06F12/02D2G4   IPC: *G06F12/02*; **G06F12/02**; (IPC1-7): G06K9/00

Publication info: **US2003169920** - 2003-09-11

32   GARBAGE COLLECTION METHOD AND COMPILATION METHOD
Inventor: CHIBA YUJI   Applicant: HITACHI LTD

EC: IPC: *G06F9/45; G06F9/46; G06F12/00* (+6)

Publication info: **JP2004287870** - 2004-10-14

33   Conservative garbage collectors that can be used with general memory allocators
Inventor: RODRIGUEZ-RIVERA GUSTAVO (US);   Applicant:
SPERTUS MICHAEL P (US); (+1)
EC: G06F12/02D2G   IPC: *G06F12/02*; **G06F12/02**; (IPC1-7): G06F12/00

Publication info: **US2004139272** - 2004-07-15

34   Optimization of memory usage based on garbage collection simulation
Inventor: COHA JOSEPH A (US); KARKARE ASHISH   Applicant: HEWLETT PACKARD CO (US)
(US); (+1)
EC: G06F11/34S   IPC: *G06F11/34*; **G06F11/34**; (IPC1-7): G06F12/02
                                                 (+1)
Publication info: **EP1349077** - 2003-10-01

35   Execution of modified cheney scanning in a multithreaded processing environment
Inventor: HUDSON RICHARD L (US); WANG HONG   Applicant:
(US)
EC: IPC: *G06F12/00; G06F12/02*; **G06F12/00** (+2)

Publication info: **US2004122876** - 2004-06-24

36   GARBAGE DISPOSER
Inventor: OYA TERUMITSU   Applicant: YANMAR AGRICULT EQUIP

EC: IPC: *B09B3/00; H04Q9/00*; **C05F9/02** (+6)

Publication info: **JP2004195411** - 2004-07-15

37   Measuring maximum memory requirement of an application at any point through continuous use of garbage collector
Inventor: SAYAG MOSHE (IL)   Applicant:

EC: G06F11/34C; G06F11/34T; (+1)   IPC: *G06F11/34; G06F12/02*; **G06F11/34** (+2)

Publication info: **US2003200409** - 2003-10-23

38   Measuring the exact memory requirement of an application through intensive use of garbage collector
Inventor: SAYAG MOSHE (IL)   Applicant:

EC: G06F11/34C; G06F12/02D2G   IPC: *G06F11/34; G06F12/02*; **G06F11/34** (+2)

Publication info: **US2003200530** - 2003-10-23

39   Combining external and intragenerational reference-processing in a garbage collector based on the train algorithm
Inventor: GARTHWAITE ALEXANDER T (US)   Applicant:

EC: IPC: (IPC1-7): G06F12/00

Publication info: **US2004111447** - 2004-06-10

40   GARBAGE DISPOSAL MACHINE, METHOD AND APPARATUS FOR

TABULATING OPERATION TRACK RECORD VALUE OF THE GARBAGE DISPOSAL MACHINE

Inventor: KITAGUCHI ATSUSHI; TAKISHITA YOSHIHIKO; (+2)

Applicant: HITACHI CONSTRUCTION MACHINERY

EC:

IPC: *B09B3/00*; B09B3/00; (IPC1-7): B09B3/00 (+1)

Publication info: **JP2004167341** - 2004-06-17

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1   Method and system for improving the concurrency and parallelism of mark-sweep-compact garbage collection
Inventor: SUBRAMONEY SREENIVAS (US); HUDSON RICHARD L (US)
Applicant:
EC:
IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30
Publication info: US2005198088 - 2005-09-08

2   Bit vector toggling for concurrent mark-sweep garbage collection
Inventor: SUBRAMONEY SREENIVAS (US); HUDSON RICHARD (US)
Applicant:
EC: G06F12/02D2G4
IPC: *G06F17/30*; G06F17/30; (IPC1-7): G06F17/30
Publication info: US2005114413 - 2005-05-26

3   Compressed video image mosaic coding/decoding process/mechanism having sub image forming mosaic and coding element/element sub assembly identifying/resynchronisation mark stream placed prior sub image.
Inventor: FRANCOIS EDOUARD; THOREAU DOMINIQUE; (+2)
Applicant: THOMSON LICENSING SA (FR)
EC: H04N7/26A4C2; H04N7/26M4C; (+3)
IPC: *H04N7/26; H04N7/50; H04N7/58* (+4)
Publication info: FR2828055 - 2003-01-31

4   Adaptive scheduling of garbage collection in a mobile phone
Inventor: PATEL MARK ARMIN (US)
Applicant: MOTOROLA INC (US)
EC: G06F12/02D2G
IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F12/02
Publication info: GB2359647 - 2001-08-29

5   Method and system for using a mark-list for garbage collection
Inventor: DUSSUD PATRICK H (US)
Applicant: MICROSOFT CORP (US)
EC: G06F12/02D2G
IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F12/00
Publication info: US6622226 - 2003-09-16

6   Computer system, program product and method of collecting interned data with a mark sweep collector
Inventor: ENDICOTT JOHN CLARENCE (US); KOLODNER ELLIOT KARL (IL); (+2)
Applicant: IBM (US)
EC: G06F12/02D2G
IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F17/30
Publication info: US6098080 - 2000-08-01

7   Computer system, program product and method of managing weak references with a concurrent mark sweep collector
Inventor: ENDICOTT JOHN CLARENCE (US); HICKS DANIEL RODMAN (US); (+2)
Applicant: IBM (US)
EC: G06F12/02D2G4
IPC: *G06F12/02*; G06F12/02; (IPC1-7): G06F17/30
Publication info: US6047295 - 2000-04-04

8   ROAD SURFACE MARK APPLYING DEVICE
Inventor: SASAYA KOJI; KURIYAMA MITSUO
Applicant: NIPPON KOTSU SANGYO KK; NIPPON POLYESTER KK
EC:
IPC: *E01C23/16*; E01C23/00; (IPC1-7): E01C23/16
Publication info: JP8128012 - 1996-05-21

9   LASER-BASED TRACKING APPARATUS FOR DETECTION OF DISTANCE BETWEEN VEHICLE AND ROAD-SURFACE MARK
Inventor: UIRIAMU DEI BAKARO
Applicant: EAROMETORITSUKUSU INC
EC:
IPC: *B60R21/00; G01S17/10; G01S17/93* (+5)

Publication info: JP7287069 - 1995-10-31

**10 APPARATUS AND METHOD FOR JUDGING BAR CODE FOR OPTICAL
TYPE MARK READER**

Inventor: JIYOOJI II KAASUNAA; JIYON BUI
MAKUMIRIN

Applicant: NATL COMPUTER SYST INC

EC: G06K7/016; G06K7/10

IPC: *G06K7/016; G06K7/10*; **G06K7/01** (+2)

Publication info: JP2244288 - 1990-09-28

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11   READING APPARATUS FOR PUNCH MARK
Inventor: IKEDA HIDEO; OMURA SHUNJI; (+4)   Applicant: MITSUBISHI ELECTRIC CORP

EC: IPC: *G01B7/34; G01N27/82; H04N1/04* (+6)

Publication info: **JP1214701** - 1989-08-29

12   IDENTIFYING APPARATUS FOR WAFER MARK CODE
Inventor: FUJIMOTO JIYOUJI   Applicant: MITSUBISHI ELECTRIC CORP

EC: H01L21/02   IPC: *H01L21/02*; H01L21/02; (IPC1-7): G06K7/10

Publication info: **JP61247014** - 1986-11-04

13   LAY-MARK BEACON DEVICE
Inventor: ONOZAWA KAZUO   Applicant: OKI ELECTRIC IND CO LTD

EC: G01S7/22   IPC: *G01S7/22*; G01S7/04; (IPC1-7): G01S13/80

Publication info: **JP58014070** - 1983-01-26

14   ALIGNMENT MARK DETECTOR FOR ELECTRON BEAM EXPOSURE
Inventor: MATSUDA KOREHITO; SHIMAZU NOBUO;   Applicant: NIPPON TELEGRAPH & TELEPHONE; HITACHI
(+3)   LTD
EC: H01J37/304B   IPC: *H01J37/304*; H01J37/30; (IPC1-7): H01L21/30

Publication info: **JP57122517** - 1982-07-30

**15   Method for measurement of displacement of moving body by use of
        target mark and apparatus therefor**
Inventor: SHIMIZU KEN-ICHI; IKEYA CHUJI   Applicant: AGENCY IND SCIENCE TECHN

EC: G01B11/00D   IPC: *G01B11/00*; G01B11/00; (IPC1-7): H04N7/18

Publication info: **US4297725** - 1981-10-27

16   Range mark generation
Inventor: KATAGI KAZUO   Applicant: RCA CORP

EC: G01S7/22; G01S13/95B; (+1)   IPC: *G01S7/22; G01S13/95; G09B9/40* (+5)

Publication info: **US4128834** - 1978-12-05

**17   Color mark detector with pulsed source and synchronous
        demodulation**
Inventor: KEY PAUL FRANKLYN; LAZZARA ANTHONY   Applicant: SCIENTIFIC TECHNOLOGY
ROSS
EC: G06K7/10D; G06K7/12   IPC: *G06K7/10; G06K7/12*; G06K7/10 (+2)

Publication info: **US4047023** - 1977-09-06

**18   CLOCK AND SECTOR MARK GENERATOR FOR ROTATING STORAGE
        UNITS**
Inventor: Applicant: BURROUGHS CORP

EC: G11B20/16; H03L7/18   IPC: *G11B20/16; H03L7/18*; G11B20/16 (+3)

Publication info: **GB1427119** - 1976-03-10

19   Mark selection circuit
Inventor: Applicant: UNITED AIRCRAFT CORP

EC: G06K17/00K   IPC: *G06K17/00*; G06K17/00

Publication info: **GB988911** - 1965-04-14

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1   GARBAGE COLLECTION SYSTEM
Inventor: IMANISHI YUKO (JP); DOI SHIGENORI (JP)   Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP)

EC: G06F12/02D2G4   IPC: *G06F12/02*; **G06F12/02**; (IPC1-7): G06F12/00
                                                     (+1)

Publication info: **EP1659496** - 2006-05-24

2   System and method for performing garbage collection based on unmanaged memory allocations
Inventor: DUSSUD PATRICK H (US); GEORGE   Applicant: MICROSOFT CORP (US)
CHRISTOPHER S (US); (+1)
EC: IPC: *G06F17/30*; **G06F17/30**

Publication info: **US2006085494** - 2006-04-20

3   Garbage collection for shared data entities
Inventor: KUCK NORBERT (DE); SCHMIDT OLIVER   Applicant:
(DE); (+2)
EC: IPC: *G06F9/44*; **G06F9/44**

Publication info: **US2006059453** - 2006-03-16

4   GENERATIONAL GARBAGE COLLECTION METHOD AND GENERATIONAL GARBAGE COLLECTION PROGRAM
Inventor: KUROMUSHIYA KENICHI   Applicant: APLIX CORP

EC: IPC: *G06F12/00*; **G06F12/00**

Publication info: **JP2006039877** - 2006-02-09

5   GARBAGE DISPOSER
Inventor: MATSUBARA YOSHIHIKO   Applicant: SHARP KK

EC: IPC: *B09B3/00; B01F7/00; G06K17/00* (+5)

Publication info: **JP2006035032** - 2006-02-09

6   CONTROL DEVICE OF AUTOMATIC CRANE FOR GARBAGE DISPOSAL PLANT
Inventor: MURAKAMI SUSUMU; KUSANO TOMOYUKI   Applicant: HITACHI KIDEN KOGYO KK

EC: IPC: *B65F5/00; B66C13/48; G01F23/28* (+3)

Publication info: **JP2006027783** - 2006-02-02

7   CONTROL DEVICE OF AUTOMATIC CRANE FOR GARBAGE DISPOSAL PLANT
Inventor: MURAKAMI SUSUMU; KUSANO TOMOYUKI;   Applicant: HITACHI KIDEN KOGYO KK
(+1)
EC: IPC: *B65F5/00; B66C13/48; G01F23/28* (+3)

Publication info: **JP2006027779** - 2006-02-02

8   Assigning sections within a memory heap for efficient garbage collection of large objects
Inventor: BLANDY GEOFFREY O (US)   Applicant: IBM (US)

EC: IPC: *G06F12/00*; **G06F12/00**; (IPC1-7): G06F12/00

Publication info: **US2005273567** - 2005-12-08

9   System and method for regeneration of methods and garbage collection of unused methods
Inventor: DAHLSTEDT JOAKIM (SE)   Applicant: BEA SYSTEMS INC (US)

EC: G06F12/02D2G   IPC: *G06F12/02*; **G06F12/02**; (IPC1-7): G06F17/30

Publication info: **US2005256913** - 2005-11-17

10 Process and system for real-time relocation of objects during garbage

collection

Inventor: HEEB BEAT (CH)

EC: G06F9/445V; G06F9/45E3; (+2)

Publication info: **US2005198079** - 2005-09-08

Applicant:

IPC: *G06F9/445; G06F9/45*; **G06F9/445** (+2)

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